

MIL'KOV, F.N.; KHATSKOLEVICH, L.M., RIVINA, I.N., MAL'CHEVSKIY, G.N.[editors].

[Influence of topography on plant and animal life] Vozdeistvie  
rel'efa na rastitel'nost' i shivotnyi mir. Moskva, Gos.izd-vo  
geogr. lit-ry, 1953. 162 p. (MLRA 7:2)  
(Geographical distribution of animals and plants)

MIL'KOV, F. N.

7.1-15 91(282.24)(02) 551.582(47)  
 \*Mil'kov, F. N. Srednee Povolzh'e: fiziko-geograficheskoe opisanie. [Middle Volga: physical-geographical sketch.] Moscow, Izd-vo Akademii Nauk SSSR, 1953. 261 p. 42 figs., 18 tables, bibliog. p. 246-253. At head of t-p: Akademiia Nauk SSSR. Institut Geographii. DLC—In the chapter on climatic conditions of the Middle Volga (p. 59-95), the annual course of solar radiation, radiation balance, temperature, rain and snowfall, evaporation, and water deficit are first described and illustrated, emphasizing local variations with sample table and charts. Then the characteristics of the seasons, phenological events, thunderstorms, droughts, cloudiness and climatic regions are treated. Finally, rivers, lakes, ground water and hydrologic regions are covered in other chapters which treat of orography, geology, geomorphology, soil cover, forests, animals and landscape zones. Subject Headings: 1. Climate of Middle Volga Region 2. Geography textbooks 3. Middle Volga, U.S.S.R.—M.R.

GP

62 62

MIL'KOV, P.N.

N.P. Rychkov and his geographical explorations in the Trans-Volga region.  
Izv. AN SSSR. Ser. geog. no. 4:77-83 J1-Ag '53. (MLBA 6:8)  
(Rychkov, Nikolai Petrovich, 1746-1784) (Russia--Description and travel)

MIL'KOV, F. N.

Taxonomy of Landscape Units and Certain Problems of Landscape Mapping

For the Central Chernozem oblasts and the Russian Flatlands on the whole the author recommends a system of landscape units in which one observes the principle of alternation of zonal and azonal factors (belt, country, zone, province, subzone, region). Region (rayon) is the lowest unit of landscape regional classification. The basis for the landscape subdivision of a region must be the search not for the lowest natural complexes but for the lowest spatical combinations of natural complexes (types of locality and natural landmark). In the landscape regions of the Central Chernozem Oblasts are noted the following types of localities: "plakor", watershed-riparian, lowland, lowland-terrace. The principal distinction in types of locality and landmark from regions and other large landscape units is in the number of typological units of cartography, and not in units of regional classification. (RZhGeol, No. 4, 1955) Tr. Voronezhsk. un-ta, 28, 1953, 112-114

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

MIL'KOV, F. N.

Problem of the Multiplicity of Landscape Boundaries

The multiplicity of landscape boundaries really exists in nature, one of its causes being the discrepancy of landscape regionalization (classification) with particular ones (geomorphological, climatic, etc.). The task of the geographer landscapist is to uncover the variety in nature of landscape boundaries on the basis of a critical exploitation of experiences from special regional classifications. (RZhGeol, No. 4, 1955) Tr. Voronezhsk. un-ta, 28, 1953, 115-117

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

MIL'KOV, P. N.

Nature of central Chernozem provinces and its transformation.

Vop.geog. no.32:3-19 '53.

(MIRA 10:11)

(Central Black Earth Region--Geography)

1. F. N. MIL'KOV, PROF.
2. USSR (600)
4. Chkalov Province - Physical Geography
7. Nature of one province ("Features of the physical geography of the Chkalov Province." Reviewed by Prof. N. A. Gvozdetskiy. Priroda 42 no. 1. 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

MIL'KOV, F.N.

USSR/ Scientists - Geography

Card 1/1 Pub. 45 - 8/16

Authors : Mil'kov, F. N.

Title : Basic geographic ideas of A. N. Krasnov

Periodical : Izv. AN SSR. Ser. geog. 6, 78 - 83, Nov - Dec 1954

Abstract : In commemoration of the 40th anniversary of the death of A. N. Krasnov (1862 - 1914), the life history and work of this outstanding scientist is recalled. As professor of geography he took part in many scientific conferences and expeditions. He also excelled in botany and wrote on both geobotanical and geographic subjects. Fifteen Russian and Soviet references (1886 - 1952).

Institution: Voronezh State University

Submitted: .....



MIL'KOV, F. N.

USSR/Geology - Stone formations

Card 1/1 : Pub. 86 - 19/46

Authors : Mil'kov, F. N., Prof.

Title : "Divas" of the Central Russian Highlands

Periodical : Priroda, 43/9, 92-95, Sep 1954

Abstract : A description is given of the landscape and certain geological formations existing along the Don River south of the city of Voronezh, with particular attention to pillar-like formations of chalk, known as "divas". Five Russian references (1863-1937). Illustrations.

Institution : .....

Submitted : .....

MIL'KOV, F. N.

USSR/Geography - New Literature

Card 1/1 Pub. 86-29/33

Authors : Mil'kov, F. N., Prof.

Title : Geographical works

Periodical : Priroda 43/11, 120-122, Nov 1954

Abstract : A review is made of a collection of works covering 676 pages, written by G. I. Tanfil'ev, and published in 1953 by the State Publishing Office for Geographical Literature, under the title, "Geographical Works." These works deal largely with the physical features and fauna of the Soviet Union and the processes of their development and are rated to be of high quality.

Institution : ...

Submitted : ...

MIL'KOV, F.N.

Regional types and topographical districts of central  
chernozem provinces (division of regional and typological units in  
topographical geography). Izv.Vses.geog.ob-va 86 no.4:336-346 J1-  
Ag '54. (MLRA 7:9)  
(Physical geography)

MIL'KOV, F.N.

MIL'KOV, F.N.

"Basic problems of physical geography." A.G.Isachenko. Reviewed  
by F.N.Mil'kov. Izv.Vses.geog.ob-va 86 no.4:373-376 J1-Ag '54.  
(Physical geography) (Isachenko, A.G.) (MLRA 7:9)

MIL'KOV, F.N.

KAMYSHEV, N.S.

"Influence of relief on plant and animal world." F.N.Mil'kov. Re-  
viewed by N.S.Kamyshev. Izv.Vses.geog.ob-va 86 no.4:376-379 J1-Ag '54.  
(Mil'kov, F.N.) (Ecology) (MLRA 7:9)

MIL'KOV, F.N.: KUMKES, S.N., redaktor; SHCHUKINA, V.V., redaktor;  
KOSHELEVA, S.M., tekhnicheskii redaktor

[A.N.Krasnov, geographer and traveller] A.N.Krasnov- geograf  
i puteshestvennik. Moskva, Gos.izd-vo geogr.lit-ry, 1955.  
173 p. (MLA 8:10)

(Krasnov, Andrei Nikolayevich, 1862-1914)

MIL'KOV, F.N.

IOFA, L.Ye.

"Life and geographical activity of P.I.Ryohkov." F.N.Mil'kov.  
Reviewed by L.N.Iefa. Izv.AN SSSR. Ser.geog. no.5:83-84 8-0  
'55. (MIRA 9:1)  
(Ryohkov, Petr Ivanovich, 1712-1777) (Mil'kov, F.N.)

MIL'KOV, P.M.

~~the~~ genetic principle, its role and value in dividing areas into  
physicogeographical regions. Trudy VGU 42 no.4:3-5 '55(MIRA 11:6)  
(Physical geography)



MIL'KOV, F.M.

N.M. Krasnov and the idea of geographical complexes (land forms)  
in Russian geography. Trudy VGU 42 no.4:7-9 '55. (MIRA 11:6)  
(Physical geography)  
(Krasnov, Andrei Nikolaevich, 1862-1914)

MIL'KOV, P.N., professor; KOVALEV, Ya.K., kandidat tekhnicheskikh nauk

Heavy shower and its consequences. Priroda 44 no.10:107 0'55.  
(MLRA 8:12)

1. Voronezhskiy gosudarstvennyy universitet  
(Rain and rainfall)

MIL'KOV, F.N.

Main problems in dividing the southern Russian Plain into physiographic regions. Izv.Vses.geog.ob-va 87 no.5:429-440 S-O '55.  
(Physical geography) (MIRA 8:12)

MIL'KOV, F.N.

GVOZDETSKIY, N.A., professor; MIL'KOV, F.N., professor; MIKHAYLOV, M.I.  
dotsept; GLAZOVSKAYA, N.A., professor, redaktora

[Program for "Physical geography of U.S.S.R." in geography  
departments of state universities] Programma po fizicheskoi  
geografii SSSR dlia geograficheskikh fakul'tetov gosudar -  
stvennykh universitetov. [Moskva]. Izd-vo Mosk.univ., 1956.  
19 p. (MLRA 10:6)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.  
(Physical geography)

MIL'KOV, F.N.

Translation from: Referativnyy Zhurnal, Geografiya, 1957, Nr. 1, p. 17 (USSR) 14-1-241

AUTHOR: Mil'kov, F. N.

TITLE: Some Debatable Questions in Topological Geography (O nekotorykh diskussionnykh voprosakh landshaftnoy geografii)

PERIODICAL: Vopr. Geografii, 1956, sbornik 39, pp. 80-89

ABSTRACT: The article deals with regional, typological and analogical topological units and the problem of environment and biogeocenosis, and their place in topological geography.

A growing number of scientists is becoming aware that in topology, a distinction should be made between different typological units, even though a clear-cut basis for such a differentiation is still lacking. According to the author, all regional units (the physico-geographical area, the zone, the province, the region) become individualized during the formative period of the crust of the earth and are the outcome of its differentiation. A common origin determines the other traits of regional units, i. e., their territorial unity, their non-recurrence in space, their relative largeness of size, and their morphological diversity. Typological units (type of area, type of

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14-1-241

Some Debatable Questions in Topological Geography

locality, type of landscape) are of a different character; they combine a common morphology with a genetic diversity. The spatial non-recurrence and individual structure of regional units require special individualized research. Typological units are the result of generalization and therefore one studies generally the specific characteristics of a given type. In order to classify a large number of regional units belonging to different types it is necessary to divide them into groups of analogous units. In the case of regional units analogy can be two-fold. It can be external, i.e., morphological, or internal, i.e., genetic. Consequently, we can speak of topological analogues of a morphological type, as well as groups of topological analogues, based on the similarity of one or more of their principal topological elements. For example, physico-geographical regions reveal two groups of analogues: the group of mountainous regions and that of plains. In the second of these groups one finds two groups of analogues: highland plains and lowland plains. Each of these groups comprises morphological and genetic topological analogues.

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Some Debatable Questions in Topological Geography

14-1-241

In discussing the terms "fatsiya" (phase, environment) and "biogeocoenosis" the author points out that in meaning they are identical. Although he prefers the term biogeocoenosis, he feels it would be more correct to use "geocoenosis". He is of the opinion that geocoenosis is not a branch of topology, but a separate, though closely related, science.

Card 3/3

Z. R.

MIL'KOV, Fedor Nikolayevich; MARGOLIN, Ya.A., redaktor; KOSHELEVA, S.M.,  
tekhnicheskii redaktor

[The physical geography zone and its content, as exemplified by  
the Russian Plain] Fiziko-geograficheskii raion i ego sodershanie;  
na primere Russkoi ravniny. Moskva, Gos. izd-vo geogr. lit-ry.  
1956. 220 p. (MIRA 9:12)  
(Physical geography)



RIKHTER, G.D., doktor geograficheskikh nauk, otvetstvennyy redaktor;  
MIL'KOV, F.N., doktor geograficheskikh nauk, otvetstvennyy redaktor;  
VOLYNSKAYA, V.S., redaktor izdatel'stva; AUZAN, N.P., tekhnicheskiy  
redaktor

[Forest-steppe and steppes of the Russian plains] Lesostep' i step'  
russkoi ravniny. Moskva, 1956. 295 p. (MLFA 9:9)

1. Akademiya nauk SSSR. Institut geografii.  
(Steppes)

MIL'KOV, F.N.

Landscape regions of central Chernozem provinces. Trudy VGU 37:5-65  
'57. (MIRA 11:6)

(Central Black Earth Region--Physical geography)

MIL'KOV, F.N.

Problems in the field study of types of lands and geographical  
features of central Chernozem provinces. Nauk. zap. L'viv. un.  
40:57-64 '57. (MIRA 11:6)

1. Gosudarstvennyy universitet, Voronezh.  
(Central Black Earth region--Physical geography)

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSKIY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv. un. 40:231-267 '57. (MIRA 11:6)  
 1. L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin).  
 2. Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov, Miroshnichenko, Petrov). 3. Institut geografii AN SSSR, Moskva (for Armand, Sobolev). 4. Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov). 5. Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova). 6. Komissiya okhrany prirody AN SSSR, Moskva (for Protopopov). 7. Gosudarstvennyy universitet, Chernovtsy (for Rybin). 8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev). 9. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva). 10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin). 11. Gosudarstvennyy universitet, Tbilisi (for Saneblidze). 12. Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev). 13. Torgovo-ekonomicheskii institut, L'vov (for Perevalov). 14. Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas). 15. Muzei zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov). 16. Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

1911-1912

MIL'KOV, F.N.

Some words in defense of the forest-and-steppe geographical zone.

Izv. Vses. geog. ob-va 89 no.6:548-550 M-D '57. (MIRA 10:12)

(Physical geography)

MIL'KOV, Fodor Nikolayevich, prof., GVOZNETSKIY, Nikolay Andreyevich, prof.;  
MARGOLIN, Ya.A., red.; MAL'CHEVSKIY, G.N., red.kart.; KOSHELEVA,  
S.M., tekhn. red.

[Physical geography of the U.S.S.R., general survey (European part  
of the U.S.S.R.; the Caucasus). A brief course of lectures]  
Fizicheskaya geografiya SSSR; obshchiy obzor (Yevropeiskaya chast'  
SSSR; Kavkaz). Kratkii kurs lektsii. Moskva, Gos. izd-vo geogr.  
lit-ry, 1958. 351 p. (MIRA 11:11)

1. Voronezhskiy gosudarstvennyy universitet (for Mil'kov).
2. Moskovskiy gosudarstvennyy universitet (for Gvozdetkiy).  
(Physical geography)

3(5)	FROM 2 SOME EXPERTISE ON 8/7/78	
	Andersson and Malm. Statistical Geography.	
	Geography and Statistics (Problems in Physical Geography)	
	Reuter, 1970. 1st ed., 1970. 370 p. British map library.	
	1,300 copies printed.	
	Reuter, M. J. 1970. Editor of Geographical Science,	
	Professor, M. J. Publishing House, 5.5. Tugayev,	
	St. M. J. 1970. Moscow.	
	REMARKS: This book is intended for meteorologists, hydrologists,	
	pedologists, geologists, and students of physical geography	
	in general.	
	CONTENTS: These articles are dedicated to Academician A. A.	
	Grigoryev in commemoration of his seventy-first birthday	
	anniversary. They treat problems in physical geography per-	
	taining to the northern regions of the USSR and particularly	
	those of Siberia. The majority of the articles are devoted	
	to questions of latitudinal and vertical zonation and contain	
	much factual material on the relationship between the various	
	physical components. Practical conclusions and methodo-	
	logical principles are cited. Each article is accompanied by	
	maps, photographs and numerous bibliographic references.	
	Problems in Physical Geography 8/7/78	
	Grigoryev, M. J., and D. A. Tugayev. Small Characteristics	76
	and Problems in Regional Relief-shaping Processes	
	Grigoryev, I. P. Natural Subtropical (Mediterranean)	103
	Regions of the USSR and Their Far Eastern Counter-	
	parts	
	Reuter, V. M. The Relationship Between the Vertical	113
	Climate, Structure of Soils in Mountainous Areas and	
	Climate Conditions Amplified by the Rainy	
	Season	
	Reuter, V. M. Morphological Characteristics of	130
	the Tundra in Mountain Plateaus	
	Reuter, V. M., V. P. Tugayev, D. A. Tugayev, and	144
	A. P. Grigoryev. Trial Analysis of the Qualitative	
	and Quantitative Indices in the Physiogeographical	
	Setting of Pripyat's (Upper River Basin)	
	Cont 2/6	

MIL'KOV, F.N.

Two-stage structure of plain reliefs. Nauch.dokl.vys.shkoly;  
geol.-geog.nauki no.1:144-149 '58. (MIRA 12:2)

1. Voronezhskiy universitet, geograficheskiy fakul'tet, kafedra  
fizicheskoy geografii.

(Plains)



MIL'KOV, F.N.

Aspen brushweed, its distribution and origin. Nauch. dokl. vys.  
shkoly; geol.-geog. nauki no.3:150-157 '58. (MIRA 12:1)

1. Voronezhskiy universitet, geograficheskiy fakul'tet, kafedra  
fizicheskoy geografii.

(Aspen)

MIL'KOV F.N.

AUTHOR: Gvozdet'skiy, N.A. SOV10-58-4-25/28

TITLE: An Inter-University Conference on Dividing the USSR into Economic Regions (Mezhvuzovskoye soveshchaniye po rayoni-rovaniyu)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1958, nr 4, pp 146 - 149 (USSR)

ABSTRACT: From 1 - 5 February 1958, the Ministry of Higher Education and the Moscow State University convened the above-mentioned conference. The purpose was to discuss the results of the first year of planning for this division, and to plan further development. The conference heard the following reports: P.A. Letunov, N.N. Rozov and V.M. Fridland, workers of the SOPS and the Soil Institute of the USSR Academy of Sciences on "The Division of the USSR into Economic Regions According to Soil and Climatic Factors"; S.D. Cheremyshev on the economic evaluation of the land; Professor F.N. Mil'kov on a physical-geographical scheme for an economic division of the central black earth regions; V.K. Zhuchkova on research work done by the Moscow University on an economic division of the black earth regions; Professor V.P. Popov, O.V. Poryvkina and A.I. Lan'ko

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SOV-10-58-4-25/28

An Inter-University Conference on Dividing the USSR into Economic Regions

on the results of the work done in 1957 on an economic division of the USSR according to physical-geographical considerations; P.S. Kuznetsov, A.Ye. Matissen and Ye.V. Isherskaya (Saratov geographers), B.A. Chazov (Saratov and Perm' University) and Professor G.G. Grigor (Tomsk University) on an economic division of the USSR according to physical-geographical considerations; M.S. Saneblidze, N.K. Keremov and K. Oganyan on a scheme for an economic division of the Trans-Caucasian Republic; V.D. Bobok and N.N. Dzens-Litovskaya (Leningrad University), K.G. Raman (Latvian University), V.A. Dement'yev (Byelorussian University), A.V. Stupishin (Kazan' University), B.A. Lunin (Kirghiz University) and Yu.A. Usmanov (Bashkir Institute of Agriculture) on the economic division of their respective regions; A.N. Rakitnikova (MGU) on "A Method of Dividing the Country into Agricultural Regions"; I.F. Mukol' on "The Experiment of Dividing the USSR into Agricultural Region"; G.A. Kocharyan on "The Economic and Agricultural Zoning of Armenia"; B.N. Perlin on "The Organization of Leading Agricultural Branches on the Example of Flax Cultivation in the Smolensk Oblast"; S.I. Savenkov

~~Card 2/3~~

AUTHOR: Mil'kov, F.N., Professor 26-58-5-47/57

TITLE: ~~Nature in a~~ Republic on the Volga River (Priroda pri-  
volzhskoy respublik) Sketches on the Geography of the  
Tataria Republic (Ocherki po geografii Tatarii)

PERIODICAL: Priroda, 1958, Nr 5, pp 120 - 121 (USSR)

ABSTRACT: One new book is listed with a short description.

AVAILABLE: Library of Congress

Card 1/1 1. Tataria Republic - Geography

MIL'KOV, Fedor Nikolayevich; MARGOLIN, Ya.A., red.; KONOVALYUK, I.K.,  
mladshiy red.; KISELEVA, Z.A., red.kart; GLEYKH, D.A.,  
tekhn.red.

[The riddle of pine forests growing on chalk outcrops] Zagadka  
melovykh borov. Moskva, Gos.izd-vo geogr.lit-ry, 1959. 34 p.  
(MIRA 13:2)

(Pine)

(Paleobotany)

MIL'KOV, Fedor Nikolayevich; VOLKOV, A.G., red.isd-va; KRIVNEVA,  
V.Ye., tekhn.red.

[Main problems of physical geography; selected lectures]  
Osnovnye problemy fizicheskoi geografii; izbrannye lektsii.  
Voronesh, Izd-vo Voroneshakogo univ., 1959. 167 p.  
(MIRA 14:2)  
(Physical geography)

MIL'KOV, F.N.

Land form complexes and their study as a division of physical  
geography. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:15-20  
'59. (MIRA 12:6)

1. Voronezhskiy universitet, geograficheskiy fakul'tet, kafedra  
fizicheskoy geografii.  
(Physical geography)

MIL'KOV, F.N.

Professor G.D.Rikhter; on his 60th birthday. Nauch.dekl.vys.  
shkoly; geol.-geog.nauki no.2:223-224 '59. (MIRA 12:8)  
(Rikhter, Gavriil Dmitrievich, 1899-)



MIL'KOV, Fodor Nikolayevich; VASIL'YEVA, O.S., red.; KONOVALYUK, I.K.,  
mladshiy red.; KISLEVA, Z.A., red.kart; VILENSKAYA, E.N.,  
tekhn.red.

[Dictionary-reference book on physical geography] Slovar'-spra-  
vochnik po fizicheskoi geografii. Moskva, Gos.izd-vo geogr.  
lit-ry, 1960. 269 p. (MIRA 13:12)  
(Physical geography--Dictionaries)

MIL'KOV, F.H.

On the 100th anniversary of Eduard Aleksandrovich Eversmann's  
death. Vest.Mosk. un. Ser. 5: Geog. 15 no.4:62-63 J1 - Ag '60.  
(Eversmann, Eduard Aleksandrovich, 1794 - 1860)

MIL'KOV, Fedor Nikolayevich

[Physicogeographical zoning of central chernozem provinces]  
Fiziko-geograficheskoe raionirovanie tsentral'nykh chernozemnykh oblastei. Voronezh, Izd-vo Voronezhskogo univ.,  
1961. 261 p. (MIRA 18:5)

MIL'KOV, Fedor Nikolayevich; STRIGIN, V.M., red.; KONOVALYUK, I.K.,  
mladshiy red.; GOLITSYN, A.V., red. kart; BURLAKA, N.P.,  
tekhn. red.

[Central region of the European part of the U.S.S.R.; studie  
of nature] Sredniaia polosa Evropeiskoi chasti SSSR: ocherk  
prirody. Moskva, Gos. izd-vo geogr. lit-ry, 1961. 215 p.  
(MIRA 15:2)

(Physical geography)

MIL'KOV, F.N.

Geography of residual watershed hills in the Central Russian  
Upland. Vest. Mosk. un. Ser.5: Geog. no.2:24-26 Apr '61.  
(MIRA 14:4)

1. Kafedra fizicheskoy geografii Voronezhskogo universiteta.  
(Central Russian Upland—Physical geography)

MIL'KOV, F.M.

Present state of the teaching of geographical zones. Izv.Vor.  
otd.Geog.ob-va no.3:3-14 '61. (MIRA 15:11)  
(Physical geography)

MIL'KOV, F.N.

Results of dividing the Central Black Earth Region into physico-  
geographical regions. Vop. geog. no.55:42-48 '61. (MIRA 15:1)  
(Central Black Earth Region--Physical geography)

MIL'KOV, Fedor Nikolayevich, prof.; GVOZDETSKIY, Nikolay Andreyevich, prof.; STRIGIN, V.M., red.; BELICHENKO, R.K., mladshiy red.; GOLITSYN, A.V., red. kart; KOSHELEVA, S.M., tekhn. red.

[Physical geography of the U.S.S.R.; general survey, the European part of the U.S.S.R. and the Caucasus] Fizicheskaya geografiya SSSR; obshchiy obzor: Yevropeiskaya chast' SSSR, Kavkaz. Moskva, Geografiz, 1962. 475 p. (MIRA 16:3)

1. Voronezhskiy gosudarstvennyy universitet (for Mil'kov).
2. Moskovskiy gosudarstvennyy universitet (for Gvozdetkiy).  
(Physical geography)



MIL'KOV, F.N.

Several general problems in plotting small-scale landform maps.  
Mat. Kom. po land. kart. no.2:45-54 '62. (MIRA 16:10)

MIL'KOV, F.N.

Gavriil Ivanovich Tanfil'ev and some problems of the geography  
of the Russian Plain. Trudy Od. un. 152. Ser. geol. i geog.  
nauk no.9:29-42 '62. (MIRA 17:6)

MIL'KOV, F. N.

Andrei Nikolaevich Krasnov; on the 100th anniversary of his  
birth. Vest. Mosk. un. Ser. 5: Geog. 17 no.5:69-71 S-0 '62.  
(MIRA 15:10)

(Krasnov, Andrei Nikolaevich, 1862-1914)

- MIL'KOV, F.N.

Landform dissymmetry of the Central Russian Upland. Vest. Mosk.  
un. Ser. 5: Geog. 18 no.4:67-69 J1-Ag'63. (MIRA 17:2)

MIL'KOV, F.N.

"Development of physicogeographical concepts in Russia in the 19<sup>th</sup>  
and the beginning of the 20th century" by A.A.Grigor'ev. Izv.Vses.-  
geog.ob-va 95 no.3:271-272 My-Je '63. (MIRA 16:8)  
(Physical geography) (Grigor'ev, A.A.)

MIL'KOV, F. N.

Development of present-day landform complexes. Izv Vses geog  
ob-va 96 no. 1:14-22 Ja-F '64. (MIRA 17:5)

MIL'KOV, Fedor Nikolayevich; MARGOLIN, Ya.A., red.; KONOVALYUK,  
I.K., mlad. red.

[Natural zones of the U.S.S.R.] Prirodnye zony SSSR. Mo-  
skva, Izd-vo "Mysl'," 1964. 324 p. (MIRA 17:7)

MIL'KOV, F.N.

New data on the active chalk karst of Central Russian Upland.  
Nauch. zap. Vor. otd. Geog. ob-va; 65:70 '63. (MIRA 17:9)



MIL'KOV, F.N.

Geographical landforms and geographical architecture. Izv.

Vses. geog. ob-va 96 no.5:420-422 S-O '64.

(MIRA 17:12)

MIL'KOV, F.N.

Nature of treeless land in the East European Plain. Geog.sbor.  
L'vov.otd.geog.ob-va SSSR no.8:20-27 '64.

(MIRA 18:5)

MIL'KOV, F.N.

First regional results of interuniversity studies on the physico-  
geographical regionalization of the U.S.S.R. Izv. Vses. geog.  
ob-va 96 no.3:221-225 '64 (MIRA 17:8)

MIL'KOV, F.N.

Marl and chalk karst of the Central Russian Upland. Trudy  
MOIP 15:22-26 '65. (NIRA 18:9)

RAYNOV, R., dotsent; CHERKEZOVA, Ye.; MILKOV, G.

Etiopathogenesis of acute pancreatitis. Vest.khir. 83 no.10:29-31  
O '59. (MIRA 13:2)

1. Iz kafedry operativnoy khirurgii (zaveduyushchiy - dotsent Rayko Raynov) Sofiyskogo vysshogo meditsinskogo instituta (Narodnaya Respublika Bolgariya). Adres avtorov: Bolgariya, Sofiya, ul. Georgi Sofiyski, 1, Vysshiy meditsinskiy institut.  
(PANCREATITIS etiology)

KOLIKOVSKI, N.; MILKOV, G.

Primary suture in infected gunshot wounds of soft tissues associated with ionising radiation injuries. Khirurgia 15 no.9/10:853-856 '62.

1. Iz Katedrata po operativna khirurgia s topografiska anatomia pri VMI [Vishh meditsinski institut] - Sofia.  
(WOUNDS GUNSHOT) (WOUNDS INFECTION)  
(RADIATION INJURY EXPERIMENTAL)

MILKOV, G.

Experimental data on the neurovegetative control of carbohydrate metabolism before and after gastrid resection. Nauch. tr. vissh. med. inst. Sofia 41 no.2:111-121 '62.

1. Predstavena ot prof. R. Rainov.  
(POSTGASTRECTOMY SYNDROMES)  
(CARBOHYDRATE METABOLISM)  
(BLOOD SUGAR) (EPINEPHRINE)  
(ACETYLCHOLINE) (AUTONOMIC NERVOUS SYSTEM)

MILKOV, G.; ANDREEV, Tsv.

Actinomyces of the anterior abdominal wall following  
appendectomy. Khirurgia (Sofia) 16 no.4:396-399 '63.

1. Iz Katedrata po operativna khirurgia s topografiska anatomia  
pri VMI [Vissh meditsinski institut] - Sofia.

(ABDOMINAL WALL) (ACTINOMYCOSIS)  
(APPENDECTOMY) (POSTOPERATIVE COMPLICATIONS)



MILKOV, G.

Pathologic changes in the abdominal organs during temporary thoracic aorta occlusion. Nauch. tr. vissh. med. inst. Sofia 42 no. 4: 69-73 '63

1. Chair of Operative Surgery and Topographic Anatomy, (Director: prof. D. Kapitanov), Medical Institute in Sofia.

\*

MILKOV, G.

On the clinical diagnosis and pathogenesis of the dumping syndrome following gastric resection. Khirurgiia (Sofia) 18 no.4:441-447 '65.

1. Katedra po operativna khirurgiia s topografska anatomia, Vissh meditsinski institut, Sofia (vr. rukovoditel - prof. G. Kapitanov).

ANTONYUK, B.N.; DENESYUK, I.P.; KUROV, Yu.P.; VAYNSHTEYN, A.I.; BERDNIKOV, V.A.;  
VEYTSMAN, M.B.; IVANOV, A.A.; IVANOV, A.S.; GAYEVSKIY, B.L.; KOZEL'TSEV,  
L.K.; KOZEL'TSEV, L.I.; KIVALDIN, S.G.; MIROSHIN, A.I.; ~~MIKOV, G.Y.~~  
ZUBKOVSKIY, B.P.; IZYUMOV, B.N.; EDEL'SHTEYN, V.I.; KOCHETKOV, V.P.;  
BUBLIKOV, A.V.; DZHANASHIYA, V.A.

Patents. Bum. 1 der. prom. no.1253-54 Ja-Mr '65.

(MIRA 18:10)

MIL'KOV, G.Ye.

Modernization of OK-35 and OK-66 debarkers. Der. prom. 15 no.1:  
10-11 Ja '66. (MIRA 19:1)

MILKOV, I.

On the treatment of traumatic hydrops and hemarthrosis of the  
knee joint with hydrocortisone. Khirurgia 15 no.9/10:964-966  
'62.

1. Iz khirurgichnogo otdelenia pri Voennata bolnitsa - Sliven.  
(EDEMA) (HYDROCORTISONE) (KNEE INJURIES)  
(HEMORRHAGE)

BULGARIA

Maj (Major) Iordan MILKOV and Maj Stefan BELOV, MC

"Three Cases of Invagination"

Sofia, Voenno Meditsinsko Delo, Vol 18, No 2, 1963; pp 54-57..

Abstract: Case reports of an infant aged 7 months with ileus, and of 2 soldiers with unspecific "acute abdomen" found to be due to intestinal invagination and treated surgically with success.

1/1

MILKOVIC, Ivan, inz.

News from the Faculty of Civil Engineering. Gradevinar 16  
no. 8:300 Ag '64.

1. Chairman, Council of the Faculty of Civil Engineering,  
Zagreb.

MIL'KOV, K.; BLOKH, V.; AMEL'CHENKO, M.

Toward a radical reorganization of management. Sots.trud  
(MIRA 13:4)  
4 no.7:106-115 J1 '59.

1. Nachal'nik otдела truda i zarabotnoy platy Karel'skogo  
sovnarkhoza (for Mil'kov). 2. Direktor Moskovskogo zavoda  
svetotekhnicheskikh izdeliy (for Blokh). 3. Nachal'nik otдела  
truda i zarabotnoy platy Upravleniya metallurgicheskoy promy-  
shlennosti.

(Industrial organization)



MAVRODINOV, N.; BELOV, IU; MILKOV, Kh.; POPNIKOLOV, S.

Discussion on our experience with patients with heart disease examined by classical clinical methods from the viewpoint of valvulotomy. Suvr. med. 14 no.13-7 '63.

(MITRAL STENOSIS) (RHEUMATIC HEART DISEASE)  
(HEART SURGERY) (HEART CATHETERIZATION)  
(ELECTROCARDIOGRAPHY) (PHONOCARDIOGRAPHY)

MILKOV, L.Ye.

Effect of intensive noise on the functional state of the nervous system.  
Gig.1 san. 25 no.9:26-31 S '60. (MIRA 13:9)

1. Iz nevrologicheskogo otdeleniya kliniki Instituta gigiyeny truda  
i professional'nykh zabolevaniy AMN SSSR.  
(NERVOUS SYSTEM) (NOISE—PHYSIOLOGICAL EFFECT)

MILKOV, L.Ye.

Effect of industrial noise on some functions of the nervous  
system. Sov.Med. 27 no.7:89-92 JI'63. (MIRA 16:9)

1. Iz Instituta gigiyeny truda i professional'nykh zabolevaniy  
AMN SSSR.  
(NERVOUS SYSTEM) (NOISE—PHYSIOLOGICAL EFFECT)

L 40785-65 EWG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(a) Pa-5 DD  
ACCESSION NR: AP5006981 S/0240/65/000/002/0029/0033

AUTHOR: Drogichina, E. A.; Milkov, L. Ye.; Ginzburg, D. A. 42  
41  
13

TITLE: Changes in the bioelectric activity of the brain and certain vegetative-vascular reactions under the influence of noise ✓

SOURCE: Gigiyena i sanitariya, no. 2, 1965, 29-33

TOPIC TAGS: bioelectric activity, brain, noise, auditory analyzer

ABSTRACT: The authors studied the effect of high frequency noise of 110 decibels on two groups of persons under laboratory conditions: individuals working in a noisy shop and a control group. The indices taken included EEG, EKG, the critical

On two groups of persons in a noisy shop and a control group. The indices taken included EEG, EKG, the critical frequency of noise flashes, the oculocardiac and orthostatic reflexes, and dermatophism. The most specific and regular reaction of the nervous system consisted of a fall in the functional mobility of the auditory analyzer and changes in the bioelectric cerebral activity. In comparison with control group, workers in the noisy shops maintained more stable blood pressure levels; however, their pulse rates increased in response to the primary effect of noise. Orig. art. has: 2 figures.

Card 1/2

L-40785-65

ACCESSION NR: AP5006981

ASSOCIATION: Institut gigiyeny truda i profzabolevaniy AMN SSSR, Moscow (Institute of Industrial Hygiene and Occupational Diseases, AMN SSSR)

SUBMITTED: 10Nov63

ENCL: 00

SUB CODE: LS, PH

NO REF SOV: 004

OTHER: 004

Card 2/2

L 44304-56

ACC NR: AP6018225

(N)

SOURCE CODE: UR/0391/66/000/006/0006/0010

AUTHOR: Metlina, N. B. (Moscow); Milkov, L. Ye. (Moscow); Shatalov, N. N. (Moscow); Ponomareva, N. I. (Moscow)

ORG: Institute of Industrial Hygiene and Occupational Diseases, AMN SSSR (Institut gigiyenyi truda i profzabolevaniy AMN SSSR)

TITLE: Some clinical data on effects produced by vibrations of different frequencies

SOURCE: Gigiyena truda i professional'nyye zabolevaniya, no. 6, 1966, 6-10

TOPIC TAGS: human physiology, industrial hygiene, vibration biologic effect

ABSTRACT: A total of 115 subjects aged up to 40 was studied to determine the comparative effects of high- and low-frequency vibrations. The first group (38 subjects) was made up of workers with 5 years of service exposed to high-frequency vibrations (500—900 cps; 50  $\mu$  (microns)). The second group of 77 subjects with 10 years service was exposed to low-frequency vibrations (12—20 cps; 12—14 mm). The two groups differed in the nature and degree of reactions to vibrations. Low-frequency vibrations affected the sympathetic nervous system and inhibited the cutaneous motor, vestibular, and auditory analyzers. High-frequency vibrations caused the premature development of the angiospastic syndrome in the hand. Vestibular analyzer function and pain sensitivity were altered in this group. In all likelihood, the angiospastic syndrome was caused by the disruption of peripheral autonomic structures.. [CD]

SUB CODE: 06 / SUPM DATE: 28Sep65/ ORIG REF: 005

Card 1/10LR

UDC: 617-001.34-02:534.292

MILKOV, M.

20N/6  
805.4  
.S9

NARODEN PARK VITOSHA; PUTEVODITEL' (VITOSHA PEOPLES' PARK; A GUIDEBOOK,  
BY) D. SUGAREV, M. MILKOV I K. SHOPOV. SOFIYA, DURZHAVNO IZD-VO ZA FIZKULTURNA  
I SPORTNO-TEKHNICHESKA LITERATURA, 1950. 145 p. ILLUS., MAPS.



~~MILKOV, M.Y.~~ [Milkov, M.I.], inzh.

Determining the moment of inertia of the flywheel of a machine unit due to forces depending on speed and position. Izv. vys. ucheb. zav.; mashinostr. no.12:5-14 '64. (MIRA 18:3)

1. Leningradskiy politekhnicheskii institut.

MIL'KOV, M. N.

Production of diffusion juices at low temperatures by means of electropasmolysis. A. Ya. Zagorul'ko and M. N. Mil'kov (*Sakhkar. Prom.*, 1953, No. 10, 15-18).—Conveyor-belt and rotary-type plants have been developed in which the cosettes are heated to 78-80° for 8 min. before passing current. Power consumption is 4.7-6 kw. per 1000 centners of beet per day; the juice can be purified to give a sugar equal to refined sugar in quality, with a colourless molasses. Electropasmolysis breaks down the cell fluid, and is complete when the sp. resistance ( $\rho$ ) of the cosettes equals that of the cell walls. The cell fluid has  $\rho =$  approx.  $10^8$  ohms per c.c., whilst  $\rho$  for the cosettes decreases from 8400 ohms per c.c. at 20° to 400 at 80°, viz., that of the cell wall.  
Sov. Ind. Asstr. (P. S. A.).

ML'KOV, E. V., kand. tekhn. nauk

[Prefabricated wooden panels for ceilings in two- and three-storied dwellings] Dereviannye industrial'nye paneli perekrytii dlia malometazhnogo zhilishchnogo stroitel'stva. Sverdlovsk, Ural'skii nauchno-issl. in-t Akad. kommun. khoz., 1958. 55 p. (MIRA 12:2)  
(Ceilings) (Wood)

CHUVATOV, V.V.; BEREZIN, N.N.; METSGER, E.Kh.; NAGIN, V.A.; KARTASHOV, N.A., kand. tekhn. nauk, dots.; MIL'KOV, N.V., kand. tekhn. nauk; BYCHKOV, M.I., kand. tekhn. nauk, dots.; SUKHANOV, V.P., SHLYAPIN, V.A.; KORZHENKO, L.I.; ABRAMYCHEV, Ye.P.; KAZANTSEV, I.I.; YARES'KO, V.F.; LUKOYANOV, Yu.N.; DUDAROV, V.K.; BALINSKIY, R.P.; KOROTKOVSKIY, A.E.; PONOMAREV, I.I.; NOVOSEL'SKIY, S.A., kand. tekhn. nauk, dots.; IL'INYKH, N.Z.; TSITKIN, N.A.; ROGOZHIN, G.I.; PRAVOTOROV, B.A.; ORLOV, V.D.; RACHINSKIY, M.N.; KULTYSHEV, V.N.; SMAGIN, G.N.; KUZNETSOV, V.D.; MACHERET, I.G.; SHEGAL, A.V.; GALASHOV, F.K.; ANTIPIN, A.A.; SHALAKHIN, K.S.; RASCHETAYEV, I.M.; TISHCHENKO, Ye.I.; FOTIYEV, A.F.; IPPOLITOV, M.F.; DOROSINSKIY, G.P.; ROZHKOV, Ye.P.; RYUMIN, N.T.; AYZENBERG, S.L.; GOLUBTSOV, N.I.; VUS-VONSOVICH, I.K., inzh., retsenzent; GOLOVKIN, A.M., inzh., retsenzent; GUSELETOV, A.I., inzh., retsenzent; KALUGIN, N.I., inzh., retsenzent; KRAMINSKIY, I.S., inzh., retsenzent; MAYLE, O.Ya., inzh., retsenzent; OZERSKIY, S.M., inzh., retsenzent; SKOBLO, Ya.A., dots., retsenzent; SPERANSKIY, B.A., kand. tekhn. nauk, retsenzent; SHALAMOV, K.Ye., inzh., retsenzent; VOYNICH, N.F., inzh., red.; GETLING, Yu., red.; CHERNIKHOV, Ya., tekhn. red.

[Construction handbook] Spravochnik stroitelia. Red.kollegia: M.I. Bychkov i dr. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo. Vol.1. 1962. 532 p. Vol.2. 1963. 462 p. (MIRA 16:5)  
(Construction industry)

MILKOV, S. P.

137-58-5-9130

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 54 (USSR)

AUTHORS: Lapteva, M. F., Mil'kov, S. P.

TITLE: Increasing the Productivity of Electrosmelting Arc Furnaces  
(O povyshenii proizvoditel'nosti dugovykh elektropлавil'nykh  
pechey)

PERIODICAL: Tr. Nauchn. stud. o-va. Gor'kovsk. politekhnich. in-t,  
1957, Nr 1, pp 64-68

ABSTRACT: A presentation of results of an investigation of the operation of two 10-t electric furnaces employed at the Gor'kiy automobile plant. The furnaces operate with transformers rated at 1950 kva and 2250 kva and are primarily employed for superheating (by 170°C on average) of liquid pig iron from cupola furnaces. Optimal electrical control schedules for the furnaces were calculated with the aid of a universal diagram for an electric-arc furnace installation. The maximum useful power of the arcs of the two furnaces amounts to 1767 kw and 1885 kw, respectively; the optimal effective power is approximately 1500 kw and 1690 kw. It is calculated that by employing operational control schedules as recommended by the author the productivity of the

Card 1/2

137-58-5-9130

Increasing the Productivity of Electrosmelting Arc Furnaces

furnaces may be increased by approximately 24%, while the specific consumption of electric energy may be reduced by approximately 30%.

V. T.

1. Iron--Production
2. Electric arc furnaces--Performance

Card 2/2

MIL'KOV, VI.

Club for young astronauts. IUn. nat. no.5:22-25 My '63.  
(Space biology) (Astronautics) (MIRA 16:7)

Mil'kov, V.O.

15  
Vulcanization accelerators. O. M. Chernyshev, T. N.  
Gol'ts, A. S. Golubev, V. O. Mil'kov, and A. B. Seleznev. 4220-1  
2124-2



BULGARIA

MILKOV, Y., Major (Mayor), Medical Corps (Meditsinskata Sluzhba).

"The Problem of the Deployment of Divisional First-aid Stations."

Sofia, Voenno Meditsinsko Delo, Vol 18, No 5, October 1963, pp 3-8.

Abstract: On the basis of experiments performed during the past two years with various alternatives of deployment among divisional first-aid stations for purposes of maximum speed and effectiveness, the author makes several suggestions for change in existing plans, viz., property should be loaded not by types but according to functional distinctions (to prevent complete breakdowns in work if one vehicle fails or becomes unusable), personnel should be divided into working groups so as to cut down by one-quarter on the time needed to arrive at battle readiness, the sorting and evacuation sections should be consolidated in a single sorting-evacuation unit for greater efficiency in the evacuation and treatment of the wounded.

One table, 12 Soviet-bloc references of recent date.

MIL'KOV, Ye.P.; GOL'DGOF, B.G.

Standard secondary-commutation circuits for the KSO-2UM  
chambers. Prom.energ. 16 no.9:40-43 S '61. (MIRA 14:8)  
(Electric power distribution--Equipment and supplies)

MIL'KOV, Yu.P.

Battery powered radio center for schools. Fiz. v shkole 13 no.5:60-64  
S-0 '53. (MLBA 6:8)

1. Kraanosel'skaya srednyaya shkola Kirovskoy obl. (Radio in education)

MILKOVA, E.

CZECHOSLOVAKIA/Electronics - Semi-conductor Devices and Photoelements H-8

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6232

Author : Milkova Eva

Inst : Higher Institute of Electrotechnical Physics, Prague, Czechoslovakia

Title : High Power Transistors

Orig Pub : Slaboproudý obzor, 1958, 19, No 7, 423-428

Abstract : Brief description of the construction of high power transistors and listing of the value of the principal parameters of power transistors produced in Czechoslovakia and abroad. Characteristic curves are given for the most important electric and temperature properties and relationships for a transistor with a dissipation power of 10 watts. -- Author's resume

Card : 1/1

Z/039/63/024/004/002/007  
E140/E335

AUTHOR: Milkova, Eva

TITLE: The back resistance of p-n junctions as a function of the specific resistance of germanium single crystals and the distance between a non-rectifying contact and the p-n junction

PERIODICAL: Slaboproudý obzor, v. 24, no. 4, 1963, 194 - 199

TEXT: In the engineering design of transistors and diodes it is generally assumed that the specific resistance and the quality of a germanium monocrystal are the only factors influencing the back resistance curve of a p-n junction, if surface phenomena are neglected. The article derives a new expression:

$$i_p = i_{ps} \coth \frac{\sqrt{\frac{2\epsilon\epsilon_0 U}{eN_d}}}{L_p} \quad (22)$$

Card 1/2

The back resistance ....

Z/039/63/024/004/002/007  
E140/E335

for the back current, in which the distance  $w$  between the non-rectifying contact and the junction appears. At Ge thicknesses of the order of  $10 \mu$  this leads to results different from those predicted by the analysis neglecting the effect of  $w$ . In particular, the back voltage is in most cases determined by the increase of diffusion current with decreased thickness, rather than the Zener effect and the avalanche increase of current carriers. There are 11 figures.

ASSOCIATION: Výzkumný ústav pro sdělovací techniku  
A.S. Popova, Praha (A.S. Popov Telecommunications  
Research Institute, Prague)

SUBMITTED: December 15, 1962

Card 2/2

E 10495-66

ACC NR: AP6003696

SOURCE CODE: CZ/0039/65/026/001/0014/0018

AUTHOR: Milkova, Eva—Milkova, Ye. (Graduate physicist)

ORG: A. S. Popov Communications Engineering Research Institute, Prague (Vyzkumny ustav pro sdlovaci techniku A. S. Popova)

TITLE: Cut-off frequency of transistors

SOURCE: Slaboprudy obzor, v. 26, no. 1, 1965, 14-18

TOPIC TAGS: transistor, semiconductor research, signal frequency

ABSTRACT:

The relationship between the cut-off frequency of transistors and their design is discussed. Transistors with a homogeneous base, with a diffused base, and with a diffused an intrinsic base (p-n-i-p transistor) are discussed. The dependence of the drift time upon the diffusion layer's configuration is calculated, under certain simplifying conditions. For a special case, the dependence of hole mobility on the concentration of the doping atoms is considered, and the maximum concentration in the emitter region is computed which gives the optimum frequency behavior of the transistor. It is then shown that the configuration of the diffusion layer plays an important role in the p-n-i-p transistor, whereas the total thickness of the base is of small importance. In this respect the p-n-i-p transistor differs from the other transistor types. In conclusion, the theoretical and experimental results are compared. Orig. art. has: 6 figures and 32 formulas. [JPRS]

SUB CODE: 09

SUBM DATE: 24Jun64 / OTH REF: 001

UDC: 621.314.7

Card 1/1

*Smil'kova, L. P.*

**AUTHORS:** Smirnova, I. V., Topchiyeva, K. V., Smil'kova, L. P. 76-1-6/32

**TITLE:** The Adsorption of Alkylaromatic Hydrocarbons From Solutions by Means of Industrial Catalysts. I.  
(Adsorbtsiya iz rastvorov alkilaromaticheskikh uglevodorodov na promyshlennyykh katalizatorakh. I.)

**PERIODICAL:** Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 1, pp. 43-48 (USSR)

**ABSTRACT:** The question of the problem of the influence of the conjugated double compound in the side chain of an aromatic ring or the adsorption from a solution is treated by means of the example of isopropylbenzene and isopropenylbenzene adsorbed by industrial catalysts. The systems investigated here are infinitely intermixing liquids. The adsorption of isopropylbenzene from solutions in n-heptane and in carbon tetrachloride, the adsorption of isopropenylbenzene from solutions in n-heptane by means of industrial catalysts of Houdry and aluminum oxide at 20°C was investigated. The adsorption isothermal lines pass through a maximum and cross the concentration axis in a point near to  $c_s = 1/V_m$ .

Card 1/3



The Adsorption of Alkylaromatic Hydrocarbons From  
Solutions by Means of Industrial Catalysts. I.

76-1-6/32

$V_m$  = the molecular volume of carbon,  $c_3$  = the concentration. Up to the concentrations corresponding to the maximum the adsorption remains monomolecular. The authors show that the selective adsorption of isopropylbenzene is essentially greater from a compound with n-heptane than with a compound with carbon tetrachloride. The authors stated that the molecules of the alkylaromatic hydrocarbons investigated here are, with the benzene ring level, orientated parallel to the catalyst surface in the case of an adsorption from solutions in n-heptane. The authors also show that the presence of a conjugated double compound in the side chain of the aromatic ring at the transition from isopropylbenzene to isopropenyl-benzene essentially increases the adsorption potential. This proves the change of the molecular constant from  $60 \text{ \AA}^2$  to  $56 \text{ \AA}^2$  in the case of isoprenylbenzene. There are 4 figures, 3 tables, and 28 references, 19 of which are Slavic.

ASSOCIATION: Moscow State University ineni M. V. Lomonosova  
(Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova).

Card 2/3

The Adsorption of Alkylaromatic Hydrocarbons From  
Solutions by Means of Industrial Catalysts. I.

76-1-6/32

SUBMITTED: August 3, 1956

AVAILABLE: Library of Congress

Card 3/3

MIL'KOVA, L.P.; PORAY-KOSHITS, M.A.

Lattice parameters, symmetry of crystals and main features of  
the structural pattern of some metafluoberyllates. Izv. AN  
SSSR. Ser. fiz. 26 no.3:368-377 Mr '62. (MIRA 15:2)  
(Fluoberyllates) (Crystallography)

AFANAS'YEVA, G.N.; VOL'F. L.A.; MEOS, A.I.; GORBACHEVA, V.O.; MIKHAYLOV, N.V.;  
MIL'KOVA, L.P.

Thermoplasticization stretching of polyvinyl alcohol fibers.  
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